

September 13, 2021(Revision)

Christopher L. Aston State of Oregon, O&M Landscape 1240 Ferry St. SE Salem, OR 97301

#### **RE: Tree Protection Plan for the North Valley Complex Renovation Project**

#### **Summary**

The State of Oregon is renovating the North Valley Complex at 26755 SW 95th Avenue, Wilsonville, OR 97070. The exterior renovation includes the addition of a fenced-in parking, improved lighting, and improvements to the southwest entrance. A tree inventory resulted in 144 trees on the property, many of which are away from the impacts of development. A total of 27 trees are proposed for removal and 126 trees are proposed to be retained and protected.

#### Assignment

Assist the State of the Oregon in meeting the tree protection and preservation requirements of the City of Wilsonville tree code: Section 4.610.40, Type C Permit and Section 4.620.00, Tree Relocation, Mitigation or Replacement. This report does not discuss the number or species of new trees proposed for planting, rather it only presents what is required.

#### Background

A Significant Resource Overlay Zone (SROZ) is located west of the building. The proposed renovations to the building will not impact the SROZ.

#### **Observations**

The tree survey was conducted on March 3, 2021. The following information was collected for each tree over 6-inches in diameter at 4.5 above ground level: tree number, common name, botanical, name, DBH, height, canopy spread, health, condition, and pertinent comments. Tree locations were recorded on a survey provided by the State of Oregon. All trees were tagged with aluminum tags that correspond with the tree survey included in this report.

#### Discussion

#### Section 4.610.40- Type C Permit

Section 4.610.10.H.1 – Necessary for Construction (3 trees) Trees 80 - 82 are three ornamental cherry trees that are proposed for removal to facilitate exterior improvements to the southwest entrance.

#### Section 4.610.10.H.2 Damaged, Dead, and Failed Trees (10 trees)

Trees 57, 67 and 94 failed in the February 2021 ice storm. Tree 96 is dead. Trees 6, 49, 68, 87, 93, and 99 were heavily damaged in the February 2021 ice storm.

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An additional five (5) trees are recommended for removal due to declining health. Trees 1, 2, 7, 66, and 84 are either outgrowing the soil volume needed for tree growth or are otherwise showing poor incremental growth.

#### Section 4.610.10.H.3 - Interference of Trees in the ROW (9 trees)

Trees 50-52, 60, 65, 70, 74, 78, 84 are all trees in or adjacent to the right-of-way that was overplanted. The removal of these nine (9) trees is proposed to facilitate the growth of nearby trees in and adjacent to the right-of-way.

#### Table 1 Summary of Trees proposed for removal.

Code	Trees	Count
Section 4.610.10.H.1 – Necessary for Construction	80-82	3
Section 4.610.10.H.2 Damaged, Dead, and Failed Trees	6, 49, 57, 67, 68, 87, 93, 94, 96, 99	10
Section 4.610.10.H.3 - Interference of Trees in the ROW	50-52, 54, 60, 65, 70, 74, 78	9
Remove for declining health	1, 2, 7, 66, 84	5
	Total:	27

#### Section 4.620.00 Tree Relocation, Mitigation or Replacement

Twenty-seven (27) trees are proposed for removal. Of these, 25 are deciduous trees and two (2) are evergreen trees. Trees shall be selected and established per the replacement requirements outlined in Section 4.620.00.

## Section 4.620.10 Tree Protection During Construction (requirement of a Tree Maintenance and Protection Plan)

No development of new structures or renovations of existing structures is occurring on the north or east sides of the property, hence no tree protection fencing is necessary.

New trees are proposed to be planted west of the sidewalk along SW 95<sup>th</sup> Ave. These trees are a minimum of 15 feet from the existing trees located between the building and sidewalk. No tree protection fencing should be necessary. No heavy equipment is to sit or track across the east landscape bed and turf area when installing the new trees.

The proposed renovation includes restricting access to several parking spaces in the southeast corner of the existing parking lot. The fence is to be installed inside the curb and over the existing asphalt and will not impact tree roots. Existing trees in the southeast landscape strip shall be protected with tree protection fencing.

The storage of equipment and vehicles will be in the south parking lot. Tree protection fencing is proposed on the south side of the parking lot. Tree protection fencing extends from the southwest corner north along the west perimeter of the parking lot.

#### Recommendations

Based on the proposed exterior improvements and trees inventoried, I recommend the following:

- 1. Removal of 27 trees due to health, construction, or
- **2. Protection of 126 trees.** Trees in the southeast landscape bed, south landscape beds, southwest landscape bed, and west of the parking lot are to be protected with tree protection fencing. See Appendices 3-6 for specifications.

NVC Project State of Oregon Page 3 of 11 9/13/2021

#### Conclusion

The proposed renovation project is compatible with tree protection measures.

Sincerely,

Christine Johnson

Christine Johnson, MS ISA Certified Arborist, PN-8730A

#### **Enclosures:**

Appendix 1: Certification of Performance
Appendix 2: Assumptions and Limiting Conditions
Appendix 3: Tree Protection Specifications
Appendix 4: Tree Inventory
Appendix 5: Tree Protection Plan
Appendix 6: Tree Protection Signage

#### **Appendix 1: Certification of Performance**

I, Christine Johnson, certify:

- That a representative of Teragan & Associates, Inc., has inspected the tree(s) and/or the property referred to in this report. The extent of the evaluation is stated in the attached report.
- That Teragan & Associates, Inc. has no current or prospective interest in the vegetation of the property that is the subject of this report, and Teragan & Associates, Inc. has no personal interest or bias with respect to the parties involved.
- That Teragan & Associates, Inc.'s compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, or upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.
- That the analysis, opinions, and conclusions that were developed as part of this report have been prepared according to commonly accepted arboricultural practices.
- That a Board-Certified Master Arborist has overseen the gathering of data.

#### **Appendix 2: Assumptions and Limiting Conditions**

- 1. Any legal description provided to the consultant is assumed to be correct. Teragan and Associates, Inc. checked the species identification and tree diameters in the field.
- 2. It is assumed that this property is not in violation of any codes, statutes, ordinances, or other governmental regulations.
- 3. The consultant is not responsible for information gathered from others involved in various activities pertaining to this project. Care has been taken to obtain information from reliable sources.
- 4. Loss or alteration of any part of this delivered report invalidates the entire report.
- 5. Drawings and information contained in this report may not be to scale and are intended to be used as display points of reference only.
- 6. The consultants' role is only to make recommendations. Inaction on the part of those receiving the report is not the responsibility of the consultant.
- 7. This report is to certify the trees that are on site, their size and condition and create a tree plan. Tree plan to include the measures necessary to protect trees that are to be retained during the construction.

#### **Appendix 3: Tree Protection Specifications**

It is critical that the following steps be taken to ensure that trees slated for retention are protected.

#### **Before Construction Begins**

- 1. Notify all contractors of the tree protection procedures. For successful tree protection on a construction site, all contractors must know and understand the goals of tree protection. It can only take one mistake with a misplaced trench or other action to destroy the future of a tree.
  - a. Hold a Tree Protection meeting with all contractors to fully explain goals of tree protection.
  - b. Have all sub-contractors sign memoranda of understanding regarding the goals of tree protection. Memoranda to include penalty for violating tree protection plan. Penalty to equal appraised value of tree(s) within the violated tree protection zone per the current Trunk Formula Method as outline by the Council of Tree & Landscape Appraisers current edition of the *Guide for Plant Appraisal*.

#### 2. Fencing (City of Wilsonville Public Works Standard Drawing R-1155).

- a. Tree protection fencing is to be put in place before construction begins in order to protect the trees and the soil around the trees from any disturbance. Exception is if trees are to be removed that are located within the tree protection areas (TPA), they should be removed prior to installing the tree protection fencing without the use of mechanized wheeled or tracked equipment.
- b. Fencing is to be placed at the edge of the TPA as shown on the Tree Protection Plan (Appendix 4). TPAs are initially established by the project arborist based on the needs of the site and the tree(s) to be protected and approved by the City's Urban Forester.
- c. Tree protection fencing shall be 6' in height and set at the edge of the dripline, hardscape, or as shown on the Tree Protection Plan.
- d. Fence materials shall consist of a 2" mesh chain links secured to a minimum of  $1\frac{1}{2}$  diameter steel or aluminum line posts.
- e. Posts shall be set to a depth of no less than 2' in native soil.
- f. Tree protection fencing is to remain in place until the completion of adjacent construction activities. Tree protection fencing is not to be moved without written permission from the project arborist until the end of the project unless otherwise approved by the City's authorized representative.
- g. No equipment shall operate inside the tree protective fencing including during fence installation and removal unless otherwise approved by the project aborist.

#### 3. Signage.

- a. All tree protection fencing should have tree protection so that all contractors understand the purpose of the tree protection fencing. See Appendix 6 for signage.
- b. The sign shall be a minimum size of 8.5" x 11".
- c. Signage shall be secured to tree protection fencing with wire ties or plastic zip ties.
- d. Signage shall be placed 42 inches (3.5 ft) above ground and spaced 50 feet apart. Signage mist be clearly visible to contractors and the public.
- e. Signage shall be weather resistant, either laminated in plastic or placed on aluminum sheeting.

#### **During Construction**

- 1. Protection guidelines within the TPA.
  - a. No traffic shall be allowed within the TPA. No vehicle, heavy equipment, or even repeated foot traffic.
  - b. No storage of materials including but not limiting to soil, construction material, or waste from the site.
    - i. Waste includes but is not limited to concrete wash out, gasoline, diesel, paint, cleaner, thinners, etc.
  - c. Construction trailers are not to be parked / placed within the TPA without written clearance from project arborist.
  - d. No vehicles shall be allowed to park within the TPA.
  - e. No activity shall be allowed that will cause soil compaction within the TPA.
- 2. Tree protection. Retained trees shall be protected from any cutting, skinning or breaking of branches, trunks or roots.
- **3.** Root pruning. Any roots that are to be cut from existing trees that are to be retained, the project consulting arborist shall be notified to evaluate, document, and oversee the proper cutting of roots with sharp cutting tools. Cut roots are to be immediately covered with soil or mulch to prevent them from drying out.
- 4. Grade changes. No grade change should be allowed within the TPA.
- **5.** Tree protection area changes. Any necessary deviation of the TPA shall be cleared by the project arborist and approved by the City's Urban Forester.
- 6. Watering. Provide water to trees during the summer months as needed. Tree(s) that will have had root system(s) cut back will need supplemental water to overcome the loss of ability to absorb necessary moisture during the summer months.
- 7. Utilities. Any necessary passage of utilities through the TPA shall be by means of tunneling under roots by hand digging or boring under the supervision of the project arborist.
- 8. Reinspection of fencing. Tree protection fencing is subject to inspection by the City. The project arborist highly recommends monthly inspections of tree protection fencing to ensure compliance with the permit and protection of the trees.

#### **After Construction**

- 1. Fences are to remain standing until the completion of the project.
- 2. Carefully landscape in the area of the tree. Do not allow trenching or soil rototilling within the TPA. Carefully plant new plants within the TPA. Avoid cutting roots.
- 3. Do not plan for irrigation within the TPA of existing trees unless it is drip irrigation for a specific planting or cleared by the project arborist.
- 4. Provide for or ensure that adequate drainage will occur around the retained trees.
- 5. Pruning of the trees should be completed as one of the last steps of the landscaping process before the final placement of trees, shrubs, ground covers, mulch or turf.
- 6. Provide for inspection and treatment of insect and disease populations that are capable of damaging the retained trees and plants.
- 7. Trees that are retained may need to be fertilized as called for by project arborist after final inspection.



Page 7 of 11 9/13/2021

### Appendix 4: Tree Inventory for North Valley Complex 26755 SW 95th Avenue, Wilsonville, OR 97070

I         Charr         Phone and all is         13         13         15         16         Fair         <	Tree No.	Common Name	Botanical Name	DBH <sup>*</sup> (in)	Height (ft)	Spread (ft)	Condition**	Structure**	Remove or Retain	Comments
2         Chery         Param onlogy         15         15         70         Reserve float         Danke of XI.0. Loss specific loss busing balance.           4         Information         Description         11         10         10         10         Description	1	Cherry	Prunus serrulata	12	20	15	Fair	Fair	Remove - Declining health	Diameter measured at 3.75' AGL; dead and crossing branches; decay on SW side of trunk; water sprouts.
1         Birelon         Congegre pro         1         1         6         6         6         Bank         Distance         Distance <thdistance< th="">         Distance         Distance</thdistance<>	2	Cherry	Prunus sertulata	15	25	20	Fair	Fair	Remove - Declining health	Diameter at 3' AGL; water sprouts; crossing branches; touching building.
Image         Construction         Construction         Construction         Construction         Construction         Construction           4         Junces mark         Are places         1         1         1         F	3	Hawthorn	Crataegus sp.	7	10	10	Good	Fair	Retain	Diameter at 3.5' AGL; topped; weak branch attachments; unbalanced canopy to the W.
1         Herbor         Campos of a line bor         1         0         1         0         6 <td>4</td> <td>Hawthorn</td> <td>Crataegus sp.</td> <td>12</td> <td>10</td> <td>15</td> <td>Good</td> <td>Fair</td> <td>Retain</td> <td>Topped; crossing branches.</td>	4	Hawthorn	Crataegus sp.	12	10	15	Good	Fair	Retain	Topped; crossing branches.
6         Approx may         Approx may         Approx may         Mutcher 76.4.4.6. corn draw_are indexed on easy corres, which are corecore, which are corres, which ar	5	Hawthorn	Crataegus sp.	11	10	15	Good	Fair	Retain	Topped; crossing branches.
7         Neuroscenço         Matrixe do A.S. Subscience free young mover fache, young	6	Japanese maple	Acer palmatum	16	20	30	Poor	Poor	Remove - Damaged	Multistem: 7,6,6,3,4,5,6; storm damage; four leaders have decay present; unbalanced canopy with storm damage.
1         Water model         Due form         10         Cool         Ratin         Cool         Ratin         Cool         Ratin           1         Water model         Due form         10         0	7	Japanese maple	Acer palmatum	12	15	15	Fair	Poor	Remove - Declining health	Multistem: 6,6,5,5,5; inclusion; decay or wound on every leader; some storm damage in upper canopy.
9         Wetter older/ Wetter older/ We	8	Western redcedar	Thuja plicata	20	50	30	Good	Good	Retain	Codominant leaders: 16,13.
10         Approx. engle	9	Western redcedar	Thuja plicata	18	50	30	Good	Good	Retain	
11         Wetter reledy         This focus         21         80         Column Extent	10	Japanese maple	Acer palmatum	12	30	25	Good	Good	Retain	Multistem: 6,8,6,3; some storm damage in upper canopy.
11       Wester schulu       Thig place       18       90       13       Good       Face         13       Wester schulu       Thig place       12       2       20       2       30       Good       Face       Contain       Maltern 7.7.4.4. induisses schulus of the E.         15       Wester schulu       Thig place       12       30       6.004       Contain       Maltern 7.4.4. induisses schulus of the E.         16       Wester schulu       Thig place       12       30       6.004       Contain       Maltern 7.4.4. induisses schulus of the E.         17       Wester schulu       Thig place       12       6.004       Contain       Maltern 7.4.4. induisses schulus of the E.         18       Wester schulu       Thig place       13       6.004       Contain       Maltern 7.4.4. induisses schulus of the E.         19       Wester schulu       Thig place       14       6.004       Contain       Face       Face         20       Wester schulu       Thig place       14       6.004       Contain       Face       Face       Face         21       Wester schulu       Thig place       14       6.004       Contain       Face       Face       Face       Face       Face <t< td=""><td>11</td><td>Western redcedar</td><td>Thuja plicata</td><td>21</td><td>50</td><td>25</td><td>Good</td><td>Good</td><td>Retain</td><td>Codominant leaders:17,13.</td></t<>	11	Western redcedar	Thuja plicata	21	50	25	Good	Good	Retain	Codominant leaders:17,13.
13Median recedulThe photo165023GoodCoodRetinCalculationCalc	12	Western redcedar	Thuja plicata	18	50	25	Good	Good	Retain	
18       Jogano male       Jogano male <t< td=""><td>13</td><td>Western redcedar</td><td>Thuja plicata</td><td>16</td><td>50</td><td>25</td><td>Good</td><td>Good</td><td>Retain</td><td></td></t<>	13	Western redcedar	Thuja plicata	16	50	25	Good	Good	Retain	
15       Western modela       This price       21       40. Or       50. Social       Control Mathematical Social       Control Mathematical Social       Control Mathematical Social         18       Western modelar       This price       13       6. Social       Mathematical Social       Mathematical Social         18       Western modelar       This price       15       Code       Code       Reals         20       Western modelar       This price       15       Code       Code       Reals         21       Western modelar       This price       13       Code       Code       Reals         23       Western modelar       This price       15       Code       Code       Reals       Mathematical Social       12       Social         23       Western modelar       This price       14       40       15       Code       Code       Reals       Codemotion Mathematical Social       Code       Reals       Codemotion Mathematical Social       Mathematical Social       Mathematical Social       This price       Nation Mathematical Social       <	14	Japanese maple	Acer palmatum	11	25	15	Good	Fair	Retain	Multistem: 7,7,4,4; inclusions; unbalanced to the E.
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21         Western robodu         Jung Jaron         16         30         15         Good         Good         Retain         Column         Multicent 37, 54, 54         Multicent 37, 54, 54           23         Lapones maple         Accin and Multicent 37, 54, 54         Multicent 37, 54         Mul	21	Western redcedar	Thuja plicata	14	50	20	Good	Good	Retain	Two leaders: 13,6.
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25       Colorado Nue genes       Free mergen       14       40       15       Gaod       Refan         26       Colorado Nue genes       Free mergen       12       40       15       Gaod       Refan       Some discolution/velowing folze in upper cancyp.         27       Wester redockat       Thing folcat       11       40       20       Good       Refan       Some discolution/velowing folze in upper cancyp.         28       Wester redockat       Thing folcat       11       40       20       Good       Good       Refan       Some discolution/velowing folze in upper cancyp.         29       Wester redockat       Thing folcat       10       35       Good       Good       Refan       Some discolution/velowing folze in upper cancyp.         30       Wester redockat       Thing folcat       15       45       25       Good       Good       Refan       Some discolution/velowing folze in upper cancyp.         31       Wester redockat       Thing folcat       12       45       25       Good       Good       Refan       Some discolution/velowing folze in upper cancyp.         33       Wester redockat       Thing folcat       12       45       20       Good       Good       Refan       Some discolutation/velowing folze in	24	Colorado blue spruce	Picea pungens	13	40	15	Good	Good	Retain	
2b         Colorado Site gruce         Preca progen         12         40         15         Good         Refan         Some discolarities/viels/wing foliage in upper canepy.           23         Western redecht         Thing plottat         11         40         20         Good         Retain         Some discolarities/viels/wing foliage in upper canepy.           23         Western redecht         Thing plottat         11         40         20         Good         Retain         Some discolarities/viels/wing foliage in upper canepy.           31         Western redecht         Thing plottat         10         35         15         Good         Good         Retain         Some discolarities/viels/wing foliage in upper canepy.           32         Western redecht         Thing plottat         12         40         20         Good         Retain         Some discolarities/viels/wing foliage in upper canepy.           33         Western redecht         Thing plottat         12         40         20         Good         Good         Retain         Some discolarities/vielwing foliage in upper canepy.           34         Western redecht         Thing plottat         12         32         Good         Good         Retain         Some discolarities/vielwing foliage in upper canepy.           35	25	Colorado blue spruce	Picea pungens	14	40	15	Good	Good	Retain	
21       Western redechar       Image Relation       Same discolution/vellowing loing a imper canopy.         28       Western redechar       Thing Relation       11       44       28       Good       Retain       Some discolution/vellowing loing a imper canopy.         29       Western redechar       Thing Relation       11       44       28       Good       Retain       Some discolution/vellowing loing a imper canopy.         30       Western redechar       Thing Retain       11       44       28       Good       Good       Retain       Some discolution/vellowing loing a imper canopy.         31       Western redochar       Thing Retain       12       44       29       Good       Good       Retain       Some discolution/vellowing loing a imper canopy.         33       Western redochar       Thing Retain       12       44       29       Good       Good       Retain       Some discolution/vellowing loing a imper canopy.         34       Western redochar       Thing Retain       12       34       30       Goorado discolution/vellowing loing a imper canopy.         35       Colrado hile spruce       Precu pangen       12       35       15       Good       Good       Retain       Some discolutation/vellowing loing in uper canopy.         36<	26	Colorado blue spruce	Picea pungens	12	40	15	Good	Good	Retain	
23         Wester redecker         Image incluse         11         40         20         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           30         Wester redeckar         Thug plican         11         40         20         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           31         Wester redeckar         Thug plican         16         31         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           32         Wester redeckar         Thug plican         15         45         23         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           33         Wester redeckar         Thug plican         12         45         Cood         Good         Retain         Some discolution/plowing loiging upper catopy.           34         Wester redeckar         Thug plican         12         50         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           35         Colariab blue sprece         Pricer programmer         12         55         10         Good         Good         Retain         Some discolution/plowing loiging upper catopy.           36 <td< td=""><td>27</td><td>Western redcedar</td><td>Thuja plicata</td><td>8</td><td>35</td><td>15</td><td>Good</td><td>Good</td><td>Retain</td><td>Some discoloration/yellowing foliage in upper canopy.</td></td<>	27	Western redcedar	Thuja plicata	8	35	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
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46Western redecdarThuja plicata123520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.47Western redecdarThuja plicata113520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.48Western redecdarThuja plicata143525GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.49Red mapleAcer rubrum81510PoorPoorRemove - DamagedDiameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.50MapleAcer saccharum102520GoodGoodClient Request for Removal - Interference51MapleAcer saccharum122525GoodGoodClient Request for Removal - InterferenceSurface root damage; pravily unbalanced to NW; lean to NW.53MapleAcer saccharum142515GoodGoodClient Request for Removal - Interference6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.54Western redecdarThuja plicata122520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.55Western redecdarThuja plicata102520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.56Western redecdarThuja plicata102520GoodGood	45	Western redcedar	Thuja plicata	10	30	15	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
47Western redecdarThuja plicata113520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.48Western redecdarThuja plicata143525GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.49Red mapleAcer nubrum81510PoorPoorRemove - DamagedDiameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.50MapleAcer saccharum102520GoodGoodClient Request for Removal - Interference51MapleAcer saccharum122525GoodGoodClient Request for Removal - InterferenceSurface root damage; preued away from lamp to W.52MapleAcer saccharum142515GoodGoodClient Request for Removal - Interference6' No f sidewalk; 3.5' Wo f electric; diameter measured at 4' AGL.54Western redecdarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redecdarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redecdarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redecdarThuja plicata133520FairGoodR	46	Western redcedar	Thuja plicata	12	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
48Western redcedarThuja plicata143525GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.49Red mapleAcer rubrum81510PoorPoorRemove - DamagedDiameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.50MapleAcer saccharum102520GoodGoodClient Request for Removal - Interference51MapleAcer saccharum122520GoodGoodClient Request for Removal - InterferenceSurface root damage; pruned away from lamp to W.52MapleAcer saccharum122525GoodGoodClient Request for Removal - InterferenceSurface root damage; pruned away from lamp to W.53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay; wood borer holes.54Western redcedarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.56Western redcedarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.57UnknownUnknown0n/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodRetainCodominant leaders at 6.59Western redcedarThuja plicata	47	Western redcedar	Thuja plicata	11	35	20	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
49Red mapleAcer rubrum81510PoorPoorRemove - DamagedDiameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.50MapleAcer saccharum102520GoodGoodClient Request for Removal - Interference51MapleAcer saccharum122520GoodGoodClient Request for Removal - InterferenceSurface root damage; pruned away from lamp to W.52MapleAcer saccharum122525GoodGoodClient Request for Removal - Interference6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay, wood borer holes.54Western redcedarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redcedarThuja plicata102520GoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redcedarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.57UnknownUnknownn/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodRetainCodominant leaders at 6.59Wester	48	Western redcedar	Thuja plicata	14	35	25	Good	Good	Retain	Some discoloration/yellowing foliage in upper canopy.
50MapleAcer saccharum102520GoodGoodClient Request for Removal - Interference51MapleAcer saccharum122525GoodGoodClient Request for Removal - InterferenceSurface root damage; pruned away from lamp to W.52MapleAcer saccharum122525GoodGoodClient Request for Removal - Interference6 N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay; wood borer holes.54Western redcedarThuja plicata122520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.55Western redcedarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redcedarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.57UnknownUnknown0n/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodFairRetainCodominant leaders at 6.59Western redcedarThuja plicata113520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.60 </td <td>49</td> <td>Red maple</td> <td>Acer rubrum</td> <td>8</td> <td>15</td> <td>10</td> <td>Poor</td> <td>Poor</td> <td>Remove - Damaged</td> <td>Diameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.</td>	49	Red maple	Acer rubrum	8	15	10	Poor	Poor	Remove - Damaged	Diameter measured at 3.5' AGL; storm damage; heavily unbalanced to NW; lean to NW.
51MapleAcer saccharum122520GoodGoodClient Request for Removal - InterferenceSurface root damage; pruned away from lamp to W.52MapleAcer saccharum122525GoodGoodClient Request for Removal - Interference6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay; wood borer holes.54Western redcedarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redcedarThuja plicata102520GoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redcedarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy.57UnknownUnknown0n/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodFairRetainCodeminant leaders at 6.59Western redcedarThuja plicata113520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.59Western redcedarThuja plicata113520PoorGoodClient Request for Removal - InterferenceDeclinine health: brow	50	Maple	Acer saccharum	10	25	20	Good	Good	Client Request for Removal - Interference	
52MapleAcer saccharum122525GoodGoodClient Request for Removal - Interference6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay; wood borer holes.54Western redecdarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redecdarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redecdarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.57UnknownUnknown0n/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodRetainCodominant leaders at 6.59Western redecdarThuja plicata113520PairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.60Western redecdarThuja plicata113520PairGoodRetainCodominant leaders at 6.59Western redecdarThuja plicata113520PoirGoodClient Request for Removal - InterferenceDeclinine health: brown an ye	51	Maple	Acer saccharum	12	25	20	Good	Good	Client Request for Removal - Interference	Surface root damage; pruned away from lamp to W.
53MapleAcer saccharum142515GoodFairRetainThree leaders at 7; active decay; wood borer holes.54Western redeedarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redeedarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redeedarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.57UnknownUnknown0n/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodRetainCodominant leaders at 6.59Western redeedarThuja plicata113520FairGoodRetainSome discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.60Western redeedarThuja plicata113520PairGoodRetainCodominant leaders at 6.59Western redeedarThuja plicata113520PairGoodClient Request for Removal - InterferenceDeelining health: brown and yellowing foliage in upper canopy, more so than others in the planted stand.60Western redeedarThuja plicata113520PoorGoodClient Request for Removal - Interference </td <td>52</td> <td>Maple</td> <td>Acer saccharum</td> <td>12</td> <td>25</td> <td>25</td> <td>Good</td> <td>Good</td> <td>Client Request for Removal - Interference</td> <td>6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.</td>	52	Maple	Acer saccharum	12	25	25	Good	Good	Client Request for Removal - Interference	6' N of sidewalk; 3.5' W of electric; diameter measured at 4' AGL.
54Western redcedarThuja plicata122520GoodGoodClient Request for Removal - InterferenceSome discoloration/yellowing foliage in upper canopy.55Western redcedarThuja plicata102520GoodGoodRetainSome discoloration/yellowing foliage in upper canopy.56Western redcedarThuja plicata133520FairGoodRetainSome discoloration/yellowing foliage in upper canopy.57UnknownUnknown0n/an/aDeadRemove - DeadFailed; uprooted.58MapleAcer saccharum62015GoodFairRetainCodominant leaders at 6.59Western redcedarThuja plicata113520FairGoodRetainSome discoloration/gllowing foliage in upper canopy, more so than others in the planted stand.50Western redcedarThuja plicata113520FairGoodRetainCodominant leaders at 6.59Western redcedarThuja plicata113520PoorGoodClient Request for Removal - InterferenceDeclining health: brown and yellowing foliage60Western redcedarThuja plicata133520PoorGoodClient Request for Removal - InterferenceDeclining health: brown and yellowing foliage	53	Maple	Acer saccharum	14	25	15	Good	Fair	Retain	Three leaders at 7'; active decay; wood borer holes.
55       Western redeedar       Thuja plicata       10       25       20       Good       Good       Retain       Some discoloration/yellowing foliage in upper campy.         56       Western redeedar       Thuja plicata       13       35       20       Fair       Good       Retain       Some discoloration/yellowing foliage in upper campy.         57       Unknown       Unknown       0       n/a       n/a       Dead       Remove - Dead       Failed; uprooted.         58       Maple       Acer saccharum       6       20       15       Good       Rain       Codominant leaders at 6.         59       Western redeedar       Thuja plicata       11       35       20       Fair       Good       Retain       Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.         60       Western redeedar       Thuja plicata       11       35       20       Fair       Good       Retain       Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.         60       Western redeedar       Thuja plicata       13       35       20       Poor       Good       Client Request for Removal - Interference       Declining health: brown and vellowing foliage	54	Western redcedar	Thuja plicata	12	25	20	Good	Good	Client Request for Removal - Interference	Some discoloration/yellowing foliage in upper canopy.
56       Western redcedar       Thuja plicata       13       35       20       Fair       Good       Retain       Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.         57       Unknown       Unknown       0       n/a       Dead       Dead       Retain       Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.         58       Maple       Acer saccharum       6       20       15       Good       Fair       Retain       Codominant leaders at 6.         59       Western redcedar       Thuja plicata       11       35       20       Pair       Good       Retain       Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.         60       Western redcedar       Thuja plicata       11       35       20       Pair       Good       Clent Request for Removal - Interference       Declining health: brown and yellowing foliage       puper canopy, more so than others in the planted stand.	55	Western redcedar	Thuja plicata	10	25	20	Good	Good	Retain	Some discoloration/vellowing foliage in upper canopy.
57         Unknown         0         n/a         n/a         Dead         Remove - Dead         Failed; uproted.           58         Maple         Acer saccharum         6         20         15         Good         Fair         Retain         Codominant leaders at 6.           59         Western redecdar         Thuig plicata         11         35         20         Fair         Good         Retain         Codominant leaders at 6.           60         Western redecdar         Thuig plicata         13         35         20         Poir         Good         Client Request for Removal - Interference         Declining health: brown and yellowing foliage	56	Western redcedar	Thuja plicata	13	35	20	Fair	Good	Retain	Some discoloration/vellowing foliage in upper canopy, more so than others in the planted stand.
58     Maple     Acer saccharum     6     20     15     Good     Fair     Retain     Codominant leaders at 6.       59     Western redcedar     Thuja plicata     11     35     20     Fair     Good     Retain     Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.       60     Western redcedar     Thuja plicata     13     35     20     Poor     Good     Client Request for Removal - Interference     Declining health: brown and yellowing foliage	57	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed: uprooted.
59     Western redecdar     Thuja plicata     11     35     20     Fair     Good     Retain     Some discoloration/yellowing foliage in upper canopy, more so than others in the planted stand.       60     Western redecdar     Thuja plicata     13     35     20     Poor     Good     Client Request for Removal - Interference     Declining health: brown and yellowing foliage	58	Manle	Acer saccharum	6	20	15	Good	Fair	Retain	Codominant leaders at 6.
6 Western redecada 7 milyo pilicada 13 35 20 Poor Good Client Request for Removal - Interference Declinito health brown and today in upper leaded stand.	59	Western redcedar	Thuja nlicata	11	35	20	Fair	Good	Retain	Some discoloration/vellowing foliage in upper capony, more so than others in the planted stand
	60	Western redcedar	Thuja plicata	13	35	20	Poor	Good	Client Request for Removal - Interference	Declining health: brown and vellowing foliage.



Page 8 of 11 9/13/2021

### Appendix 4: Tree Inventory for North Valley Complex 26755 SW 95th Avenue, Wilsonville, OR 97070

Tree No.	Common Name	Botanical Name	DBH <sup>*</sup> (in)	Height (ft)	Spread (ft)	Condition**	Structure**	Remove or Retain	Comments
61	Western redcedar	Thuja plicata	17	35	20	Good	Good	Retain	Three leaders:11,8,11; some discoloration and yellowing foliage in upper canopy.
62	Western redcedar	Thuja plicata	15	35	20	Good	Good	Retain	Two leaders:13,8; some discoloration and yellowing foliage in upper canopy.
63	Western redcedar	Thuja plicata	13	30	20	Good	Good	Retain	Some discoloration and yellowing foliage in upper canopy.
64	Western redcedar	Thuja plicata	16	35	20	Good	Good	Retain	Some discoloration and yellowing foliage in upper canopy.
65	Maple	Acer saccharum	11	25	15	Good	Good	Client Request for Removal - Interference	
66	Maple	Acer saccharum	10	20	10	Very poor	Poor	Remove - Declining health	Blackened and missing bark on lower trunk; boring holes; little to no new growth.
67	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed; uprooted.
68	Maple	Acer saccharum	14	20	25	Poor	Poor	Remove - Damaged	Storm damage, unbalanced canopy.
69	Maple	Acer saccharum	17	25	25	Good	Fair	Retain	Diameter at 3.75'; Four leaders at 5'; crossing branches; blackened bark on lower trunk; borer holes.
70	Maple	Acer saccharum	13	25	25	Good	Fair	Client Request for Removal - Interference	Blackened bark on lower trunk; borer holes; surface root damage.
71	Western redcedar	Thuja plicata	17	35	20	Good	Good	Retain	Three leaders: 12,9,8.
72	Western redcedar	Thuja plicata	14	35	20	Good	Good	Retain	Two leaders:13,6.
73	Western redcedar	Thuja plicata	21	35	20	Good	Good	Retain	Diameter measured at 0.5' AGL; three fused leaders.
74	Maple	Acer saccharum	15	25	20	Fair	Fair	Client Request for Removal - Interference	Diameter at 3.5' AGL; large inclusion on S side; wound wood and cracked bark.
75	Western redcedar	Thuja plicata	16	35	15	Good	Good	Retain	Two leaders: 14,8; sapsuckers.
76	Western redcedar	Thuja plicata	16	35	20	Good	Good	Retain	
77	Western redcedar	Thuja plicata	16	35	20	Good	Good	Retain	
78	Maple	Acer saccharum	16	30	20	Good	Good	Client Request for Removal - Interference	Slight unbalance to NW.
79	Maple	Acer saccharum	13	25	20	Good	Fair	Retain	Inclusions; crossing branches; burls.
80	Cherry	Prunus serrulata	8	10	10	Poor	Very poor	Client Request for Removal - Development - Structure	Two leaders: 6,5; decayed leaders; lean to the E.
81	Cherry	Prunus serrulata	10	15	10	Good	Fair	Client Request for Removal - Development - Structure	Two leaders:8,6; dead branches; unbalanced to the E; water sprouts.
82	Cherry	Prunus serrulata	12	25	20	Good	Good	Client Request for Removal - Development - Structure	
83	Maple	Acer saccharum	15	20	20	Good	Good	Retain	Diameter at 4' AGL, branch inclusions; cable and telecommunications nearby.
84	Maple	Acer saccharum	16	20	20	Poor	Very poor	Remove - Declining health	Missing bark on S side; will decline; inclusions; cracked bark; dead leaders
85	Maple	Acer saccharum	15	25	25	Fair	Fair	Retain	Diameter at 4' AGL; wound on south side of trunk; inclusions.
86	Western redcedar	Thuja plicata	12	35	20	Good	Good	Retain	Three leaders: 8,8,4.
87	Green ash	Fraxinus pennsylvanica	10	30	25	Poor	Poor	Remove - Damaged	Lost 75% of canopy on storm.
88	Western redcedar	Thuja plicata	15	35	30	Good	Good	Retain	Multistem: 9,8,7,6,3.
89	Western redcedar	Thuja plicata	13	35	25	Good	Good	Retain	Two leaders: 12,6.
90	Red maple	Acer rubrum	9	25	20	Good	Good	Retain	
91	Western redcedar	Thuja plicata	12	25	15	Poor	Good	Retain	Brown foliage; in decline.
92	Green ash	Fraxinus pennsylvanica	14	30	25	Good	Good	Retain	
93	Green ash	Fraxinus pennsylvanica	15	30	20	Poor	Poor	Remove - Damaged	Lost over 50% of canopy in storm.
94	Unknown	Unknown	0	n/a	n/a	Dead	Dead	Remove - Dead	Failed; uprooted.
95	Green ash	Fraxinus pennsylvanica	19	30	30	Good	Good	Retain	
96	Green ash	Fraxinus pennsylvanica	7	n/a	n/a	Dead	Dead	Remove - Dead	
97	Western redcedar	Thuja plicata	17	35	25	Fair	Good	Retain	Codominant leaders: 13,11; browning and thinning foliage.
98	Western redcedar	Thuja plicata	12	35	25	Poor	Good	Retain	Browning and thinning foliage.
99	Green ash	Fraxinus pennsylvanica	12	25	25	Poor	Poor	Remove - Damaged	Lost over 50% of canopy to storm.
100	Douglas fir	Pseudotsuga menziesii	12	30	25	Good	Good	Retain	
101	Green ash	Fraxinus pennsylvanica	20	35	30	Good	Good	Retain	
102	Western redcedar	Thuja plicata	17	35	25	Fair	Good	Retain	Slight browning of foliage in upper canopy.
103	Douglas fir	Pseudotsuga menziesii	7	15	10	Good	Good	Retain	
104	Western redcedar	Thuja plicata	9	20	10	Good	Good	Retain	
105	Western redcedar	Thuja plicata	14	30	25	Fair	Good	Retain	Slight browning of foliage.
106	Western redcedar	Thuja plicata	19	30	25	Fair	Good	Retain	Three leaders: 14,10,8; slight browning of foliage.
107	Western redcedar	Thuja plicata	8	25	30	Good	Good	Retain	Three leaders: 6,5,3.
108	Red maple	Acer rubrum	12	25	25	Good	Good	Retain	
109	Red maple	Acer rubrum	11	20	20	Fair	Fair	Retain	Cracked bark at tree base.
110	Red maple	Acer rubrum	11	20	20	Fair	Fair	Retain	Cracked bark at trunk base and up trunk.
111	Red maple	Acer rubrum	13	25	20	Good	Good	Retain	
112	Red maple	Acer rubrum	14	25	25	Good	Good	Retain	Heavy sapsuckers at 6'.
113	Red maple	Acer rubrum	14	25	25	Good	Good	Retain	
114	Red maple	Acer rubrum	13	25	25	Good	Good	Retain	
115	Western redcedar	Thuja plicata	~15	30	30	Good	Good	Retain	
116	Northern red oak	Quercus rubra	22	40	35	Good	Good	Retain	
117	Northern red oak	Quercus rubra	19	40	35	Good	Good	Retain	
118	Western redcedar	Thuja plicata	13	35	25	Good	Good	Retain	Two leaders: 12,6.



Page 9 of 11 9/13/2021

#### Appendix 4: Tree Inventory for North Valley Complex 26755 SW 95th Avenue, Wilsonville, OR 97070

Tree No.	Common Name	Botanical Name	DBH <sup>*</sup> (in)	Height (ft)	Spread (ft)	Condition**	Structure**	Remove or Retain	Comments
119	Western redcedar	Thuja plicata	20	35	25	Good	Good	Retain	Two leaders: 8,~18
120	Northern red oak	Quercus rubra	19	40	30	Good	Good	Retain	
121	Western redcedar	Thuja plicata	~13	40	25	Good	Good	Retain	
122	Douglas fir	Pseudotsuga menziesii	~28	70	40	Poor	Poor	Retain	Dead branches; thinning foliage.
123	Douglas fir	Pseudotsuga menziesii	~30	65	40	Good	Good	Retain	
124	Douglas fir	Pseudotsuga menziesii	~36	80	50	Good	Good	Retain	
125	Giant Seqouia	Sequoiadendron giganteum	~28	45	25	Good	Good	Retain	
126	Douglas fir	Pseudotsuga menziesii	16	45	30	Good	Good	Retain	
127	Douglas fir	Pseudotsuga menziesii	20	40	30	Good	Good	Retain	
128	Giant Seqouia	Sequoiadendron giganteum	9	20	15	Good	Good	Retain	
129	Douglas fir	Pseudotsuga menziesii	17	45	30	Good	Good	Retain	
130	Giant Seqouia	Sequoiadendron giganteum	30	50	30	Good	Good	Retain	
131	Douglas fir	Pseudotsuga menziesii	45	80	40	Good	Good	Retain	
132	Douglas fir	Pseudotsuga menziesii	44	80	40	Good	Good	Retain	
133	Willow	Salix sp.	18	30	25	Good	Good	Retain	
134	Willow	Salix sp.	13	25	20	Fair	Poor	Retain	Two leaders: 7,11; unbalanced to the E.
135	Douglas fir	Pseudotsuga menziesii	44	80	40	Good	Good	Retain	
136	Bigleaf maple	Acer macrophyllum	23	30	30	Fair	Fair	Retain	Lean to NE; deadwood.
137	Incense cedar	Calocedrus decurrens	26	60	40	Good	Fair	Retain	Multiple leaders at 20'.
138	Bigleaf maple	Acer macrophyllum	34	50	40	Good	Fair	Retain	
139	Incense cedar	Calocedrus decurrens	27	60	30	Good	Good	Retain	Craggy and burled growth.
140	Incense cedar	Calocedrus decurrens	9	20	15	Good	Poor	Retain	Failed tree leaning on upper canopy.
141	Incense cedar	Calocedrus decurrens	25	50	30	Good	Good	Retain	
142	Bigleaf maple	Acer macrophyllum	27	45	25	Good	Fair	Retain	Unbalanced to the N.
143	Incense cedar	Calocedrus decurrens	10	25	10	Poor	Fair	Retain	Suppressed.
144	Incense cedar	Calocedrus decurrens	23	60	25	Good	Good	Retain	
145	Incense cedar	Calocedrus decurrens	19	65	30	Good	Good	Retain	
146	Incense cedar	Calocedrus decurrens	30	70	40	Good	Good	Retain	NW corner tree.
147	Incense cedar	Calocedrus decurrens	40	70	50	Good	Good	Retain	S of 146; codominant leaders: 28,28.
148	Incense cedar	Calocedrus decurrens	27	75	45	Good	Good	Retain	
149	Bigleaf maple	Acer macrophyllum	39	60	50	Good	Fair	Retain	Codininant leaders; diameter measured at 1' AGL; burls at trunk base; deadwood.
150	Bigleaf maple	Acer macrophyllum	25	55	35	Good	Good	Retain	
151	Bigleaf maple	Acer macrophyllum	~30	55	45	Fair	Fair	Retain	Odd growth at trunk base; deadwood.
152	Douglas fir	Pseudotsuga menziesii	43	60	50	Fair	Poor	Retain	Conks at ~20; hard lean S; failed and regrown.
153	Western redcedar	Thuja plicata	8	n/a	n/a	Dead	Dead	Retain	This tree is in a natural area and does not need to be removed.

\* DBH is diameter measured at the industry standard of 4.5-feet above ground level.

\*\* Tree health condition and structure ratings are Good, Fair, Poor, Very poor, and Dead.

AGL, Above Ground Level

**Tree Protection Plan Prepared by:** Teragan & Associates, Inc.; Christine Johnson, ISA Certified Arborist, PN-8730A Date Prepared: 09/13/2021 **Plan Provided By:** Christopher Aston, DAS Enterprise Asset Management NOTE: TERAGAN & ASSOCIATES, INC. ADDED TREES THAT WERE NOT SHOWN.

## TREE LEGEND

### **#** TREE NO.

- **X** TREE PROPOSED FOR REMOVAL
- ----- TREE PROTECTION FENCING PROPOSED LAMP POSTS

## SHEET INDEX

- C04 CIVIL COVER SHEET /KEY PLAN
- C05 SOUTHWEST CIVIL SITE PLAN
- C06 NORTHWEST CIVIL SITE PLAN
- C07 NORTHEAST CIVIL SITE PLAN
- C08 SOUTHEAST CIVIL SITE PLAN
- C09 CIVIL DETAILS/SECTIONS

## PROPOSED / NEW LEGEND AND ABBREVIATIONS

AC ADA APPROX BC BPA	ASPHALT CONCRETE AMERICANS WITH DISABILITIES ACT APPROXIMATELY BOTTOM OF CURB BONNEVILLE POWER ADMINISTRATION	
BWALL	BOTTOM OF WALL	
CONST	CONSTRUCT	
CP	CONTROL POINT	
DS	DOWNSPOUT	146 145 143 141 140
EA		
EG		
	EINISH ELOOR ELEVATION	
FG	FINISH GRADE	
FL	FLOWLINE	1/
FT	FOOT/FEET	
FS	FINISHED SURFACE	153
GB	GRADE BREAK	
GPS	GLOBAL POSITIONING SYSTEM	SULL SULL INT ALT
L	LENGTH	
LF	LINEAR FEET	152 132
ME	MATCH EXISTING	
MH	MANHOLE	
MEP	MECHANICAL ELECTRICAL PLUMBING	
MIN	MINIMUM	
PERF		
		25' SR IMPACT AREA
		BOUNDARY
R	RADIUS	
ROW	RIGHT OF WAY	
S	SLOPE	
SF	SQUARE FEET	<u>50' SROZ</u> SS
SROZ	SIGNIFICANT RESOURCE OVERLAY ZONE	BOUNDARY X 51
STD	STANDARD	
SWP	STORMWATER PLANTER	
TC	TOP OF CURB	
TP	TOP OF PAVEMENT	1 5 126
TYP	TYPICAL	SE Z RESOURCE BOUNDARY
TW	TOP OF WALK	
TWALL	TOP OF WALL	
	SAWCUTLINE	
	NEW CORB	
	STORM DRAIN (SD)	
	STORM DRAIN (SD)	
<sup>CO</sup> O	CLEAN OUT (CO)	
AD 🕁	AREA DRAIN (AD)	120
T	$\chi = I$	
ντςο Ο	VERTICAL TRANSITION	115
	CLEAN OUT (VCO)	
		一路 路 第一章
GB	GRADE BREAK	
	SPOT ELEVATION	
52.30		
	OVERLAND DRAINAGE DIRECTION	



**North Valley Complex Renovation** Design Review Package 04 March, 2021

# NORTH VALLEY COMPLEX RESTORATION WILSONVILLE, OREGON

**CIVIL DESIGN REVIEW** 

**MARCH 2021** 

1 INCH = 30 FT.

**Appendix 5: Tree Protection Plan** 



Janet Turner Engineering, LLC

**CIVIL COVER SHEET/KEY PLAN** 





## **VEGETATION/TREE PROTECTION ZONE**

## DO NOT REMOVE OR ADJUST THIS FENCING. THE FENCE LOCATIONS ARE APPROVED TO PROTECT VEGETATION AND TREES.

Please contact the Code Enforcement Specialist and project arborist, if alterations to the approved location of the protection fencing are needed.



Project Arborist: TERAGAN & ASSOCIATES, INC 503-697-1975 Date of Tree Protection Plan: 09/13/2021